

REVISION TEST 1

Schofield & Sims

- 1 $128 + 281 + 812 =$ 1221
- 2 $(156 - 65) \div 7 =$ 13
- 3 $3.01 \times 10^2 =$ 301
- 4 Express 350% as a mixed number. 3 $\frac{1}{2}$
- 5 Write 8% of 30 as a decimal. 2.4
- 6 $0.04 - 2 + 1.98 =$ 0.02
- 7 $(3.2 - 2.3) \times (3.2 + 2.3) =$ 4.95
- 8 Approximate 3.066 to one decimal place. 3.1
- 9 Calculate 2.995×4.037 correct to the nearest whole number. 12
- 10 If $a = 3$, $b = 4$, find the value of $a^2 + 2ab$ 33
- 11 $3p + 5 = p + 9$, so $p =$ 2
- 12 $\sqrt{121} =$ 11
- 13 $\text{€}3.55 \times 5 =$ $\text{€}17.75$
- 14 A pair of shoes costing $\text{£}23.50$ is reduced by 10% in a sale. How much do I save? $\text{£}2.35$
- 15 Change 63.63cm to millimetres. 636.3mm
- 16 $1.72\text{kg} + 5280\text{g} =$ 7kg
- 17 If 25 January is a Friday, what day will it be on 8 February? Friday
- 18 A train goes at 72km/h for 20min. How far does it travel? 24km
- 19 1cm on a map represents an actual distance of 800m. Write the scale of the map. 1:80000
- 20 The interior angle of each corner of a regular polygon is 90° . How many sides does the polygon have? 4
- 21 Which letters of the words POST OFFICE have one, and only one, axis of symmetry? T C E
- 22 If a dozen exercise books cost $\text{£}5.95$, find the cost of one book to the nearest 1p. 50p
- 23 The coordinates of three of the corners of a square are (0, 0), (0, 5), (5, 5). What are the coordinates of the other corner? (5, 0)
- 24 How many tiles 200mm square are needed to cover a wall measuring 3m by 2.4m? 180
- 25 What is the length in centimetres when a 27mm line is enlarged by a scale factor of 5? 13.5cm

Mental Arithmetic 6 Answers

REVISION TEST 1

Isla is helping her mother with their flower shop. They buy plants from the wholesaler and re-sell them in the shop. Isla uses a spreadsheet to look after their accounts.

	A	B	C	D	E	F	G	H	I
1	Name of	Buying	Number	Spending	Selling	Number	Income	Number	Value
2	plant	price	bought	on plants	price	sold	from plants	unsold	unsold
3	Buddleia	$\text{£}2.71$	15	$\text{£}40.65$	$\text{£}3.25$	44	$\text{£}13.00$	11	$\text{£}35.75$
4	Clematis	$\text{£}3.75$	12	$\text{£}45.00$	$\text{£}4.50$	6	$\text{£}27.00$	6	$\text{£}27.00$
5	Fuchsia	$\text{£}0.79$	65	$\text{£}51.35$	$\text{£}0.95$	33	$\text{£}31.35$	32	$\text{£}30.00$
6	Heather	$\text{£}1.00$	36	$\text{£}36.00$	$\text{£}1.20$	26	$\text{£}31.20$	10	$\text{£}12.00$
7	Hebe	$\text{£}1.58$	25	$\text{£}39.50$	$\text{£}1.90$	14	$\text{£}26.60$	11	$\text{£}20.90$
8	Hosta	$\text{£}1.25$	24	$\text{£}30.00$	$\text{£}1.50$	8	$\text{£}12.00$	16	$\text{£}24.00$
9	Lavender	$\text{£}1.37$	30	$\text{£}41.10$	$\text{£}1.65$	19	$\text{£}31.35$	11	$\text{£}18.16$
10	Potentilla	$\text{£}2.37$	12	$\text{£}28.44$	$\text{£}2.85$	7	$\text{£}19.95$	5	$\text{£}14.25$
11	Pyracantha	$\text{£}2.08$	10	$\text{£}20.80$	$\text{£}2.50$	8	$\text{£}20.00$	2	$\text{£}5.00$
12	Viburnum	$\text{£}6.00$	6	$\text{£}36.00$	$\text{£}7.20$	2	$\text{£}14.40$	4	$\text{£}28.80$
13			235	$\text{£}368.84$		127	$\text{£}226.85$	108	$\text{£}216.25$

- 26 What total number of plants do Isla and her mother buy? 235
 - 27 What total amount do they spend in buying the plants? $\text{£}368.84$
 - 28 What total number of plants do they sell on the stall? 127
 - 29 What is their total income from selling plants? $\text{£}226.85$
 - 30 What total number of plants is left unsold? 108
 - 31 What is the total value of the unsold plants? $\text{£}216.25$
 - 32 What is the most expensive plant they have for sale? Viburnum
 - 33 Which plant do they buy most of? Fuchsia
 - 34 Which plant do they sell least of? Viburnum
 - 35 Which two plants bring in most income? Fuchsia, Lavender
 - 36 What is the buying price of a Heather plant? $\text{£}1.00$
 - 37 What profit is made from selling each Heather plant? $\text{£}0.20$
 - 38 What decimal fraction of the buying price is this profit? 0.2
 - 39 What percentage profit is made from selling Viburnum? 20%
- The formula used to calculate the total number of plants bought is $\text{SUM}(\text{C3:C12})$.
- 40 What formula is used to find the total number of plants sold? $\text{SUM}(\text{F3:F12})$
 - 41 What formula is used to find the total income from plant sales? $\text{SUM}(\text{G3:G12})$
- The formula used to find the spending on Heather is $\text{B6} * \text{C6}$, where * means 'multiply'.
- 42 What formula is used to find the income from Heather plants? $\text{E6} * \text{F6}$
 - 43 What formula is used to find the income from Hosta plants? $\text{E8} * \text{F8}$
- The formula used to find the selling price of a Heather plant is $\text{B6} + (\text{B6} * 0.2)$.
- 44 What formula is used to find the selling price of Viburnum? $\text{B12} + (\text{B12} * 0.2)$
 - 45 What formula could be used to find the selling price of Clematis if they had wanted to make 25% profit? $\text{B4} + (\text{B4} * 0.25)$